

## Product datasheet for **RC203406**

### **DPP3 (NM\_130443) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DPP3 (NM_130443) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP3
Synonyms:	DPPIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC203406 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGACACCCAGTACATCTGCCCAATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCCTTCC  
GCCTGCTGTACCCACAGAGCGCCTCTATGCCTACCACCTGTCCCGTGCCGCTGGTACGGAGGCCCTGGC  
TGTGCTGCTTCAGACCTCCCCTGAGGCCCTTACATCTATGCTCTGCTCAGCCGCTCTTCCGCGCCAG  
GACCCCGACAGCTGCGCAACATGCCCTGGTGAAGGCCTTACCGAGGAGGAGTATCAGGCGTTCCTGG  
TCTATGCCGCGGGTGTACTCCAACATGGGCACTACAAGTCTTTGGTACACCAAGTTTGTCCCAA  
CTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGCAGACCCAGAAGAAGTC  
AGGGCCCTCTGCCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGACACCTCGGACTGG  
GGAAGGAGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATGGCCAGGACTT  
TCTGGACTCACAGAACCTCAGTGCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGCCC  
TACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCTGGACTCTGAGGTGACTTCCAAGC  
TGAAGAGCTATGAATCCGGGGAAGCCCTTCCAGGTGACCCGGGGGACTACGCGCCCATCTCCAGAA  
GGTGGTGGAGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGAGATGCTGGCCAG  
TATATAGAGAGCTTACCCAGGGCTCCATCGAGGCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACA  
AAGGCCCATCGTGGAGAGTTACATCGGTTTATCGAGAGCTACCGGACCCCTTTGGTTCCCGAGGAGA  
ATTTGAAGTTTCGTAGCTGTGGTGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCA  
GAGCAGCTGTGAAGGAGCTGCCCTGGCCCCAACCTTTGAGAAGGACAAGTTCTCACCCCTGACTTCA  
CCTCCCTGGATGTTCTCACCTTCGCTGGCTCCGGCATCCCTGCCGGCATCAACATCCCCAACTACGATGA  
TCTGAGGCAGACGAAGGCTTTAAGAACGTGTCGCTGGGGAATGTGCTGGCTGTGGCTACGCCACGCAG  
CGGAGAAAGCTTACCTTCTGGAGGAGGATGACAAGGACCTGTACATCCTCTGGAAGGGGCCCTCTTCG  
ATGTGCAGGTGGGCTGCACGAGCTGCTGGCCATGGCAGTGGCAAGCTTTCGTACAGGACGAAAAAGG  
AGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGATTAGAGCTGGTATCGG  
AGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCTCCAGCTACGAAGAGTGCCGGGCTGAGAGCG  
TGGGTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATGCGGAGGA  
CGTGATCTACGTGAAGTGGCTCAACATGGTTCGGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTGAG  
GCCTTCAACTGGGACAGGCCATATGCAGGCCGGTTTGTGATCCTGAGAGTCTTGTGGAGGCTGGCG  
AGGGACTCGTTACCATCACTCCCACCACAGGCTCCGATGGGCGCCAGATGCCCGGGTCCGCTCGACCG  
CAGCAAGATCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCC  
ACAGGGGATGTGGCCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGT  
GCTTCTCACCCCTCAGGGACAGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTACGCCAACAC  
TCGCTTGAAGGCTCAGACGTGCAGTCTTCTGGAATACGAGGCGTCAGTCTGCTGGCCTCATCCGATCCTC  
TCTGAGCGTTTCCAGAGGATGGACCCGAGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCC  
GATTCTGGAAGGGCCCCAGTGAGGCCCATCTGGCCAAGCT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203406 protein sequence  
 Red=Cloning site Green=Tags(s)

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQ  
 DPDQLRQHALAEGLTEEEYQAFVYAAGVYSNMGNYSFGDTKFVPLPKKLERVILGSEAAQQHPPEEV  
 RGLWQTCGELMFSLERLRLHGLGKEGITTYFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKVDGEGKP  
 YIEVRLASVLGSEPSLDSEVTSKLSYEFGRSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGMLAQ  
 YIESFTQGSIEAHKGRSRFWIQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASA  
 EQLLKELPWPPTFEKDKFLTPDFSLDVLTFAGSGIPAGINIPNYDDLRTQTEGFKNVSLGNVLAVAYATQ  
 REKLTFLLEDDKDLIILWKGPSFDVQVGLHELLGHGSGKLFVQDEKGFNFDQETVINPETGEQIQSWYR  
 SGETWDSKFSTIASSYEECRAESVGLYLCLHPQVLEIFGFEGADAEDVIYVNWLNVMVRAGLLALEFYTPE  
 AFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGS DGRPDARVRLDRSKIRSVGKPALERFLRRLQVLKS  
 TGDVAGGRALYEGYATVDAPPECFLTRDVTLLRKESRKLIVQPNTRLEGSDVQLLEYEASAAGLIRSF  
 SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

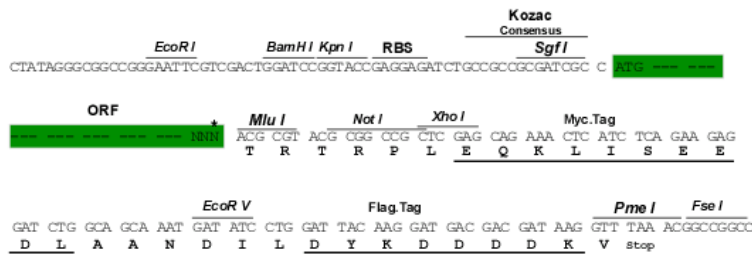
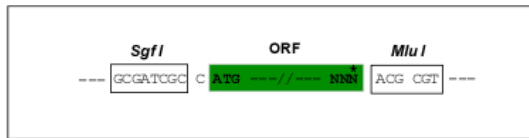
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6413\\_h09.zip](https://cdn.origene.com/chromatograms/mk6413_h09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_130443

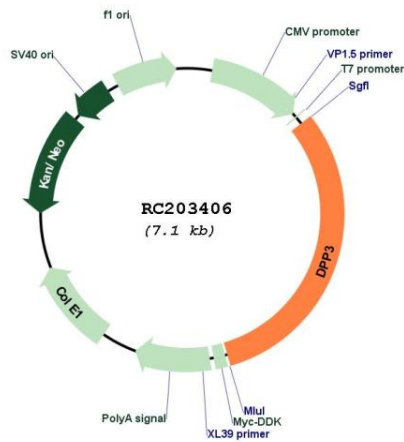
ORF Size: 2211 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

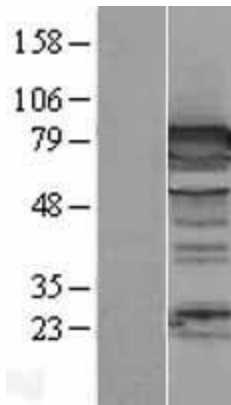
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130443.4</a>
<b>RefSeq Size:</b>	3101 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	10072
<b>UniProt ID:</b>	<a href="#">Q9NY33</a>
<b>Cytogenetics:</b>	11q13.2
<b>Domains:</b>	Peptidase_M49
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	82.6 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a member of the M49 family of metallopeptidases. This cytoplasmic protein binds a single zinc ion with its zinc-binding motif (HELLGH) and has post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Increased activity of this protein is associated with endometrial and ovarian cancers. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2012]

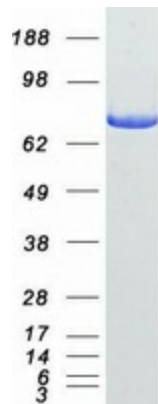
Product images:



Circular map for RC203406



Western blot validation of overexpression lysate (Cat# [LY408959]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203406 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPP3 protein (Cat# [TP303406]). The protein was produced from HEK293T cells transfected with DPP3 cDNA clone (Cat# RC203406) using MegaTran 2.0 (Cat# [TT210002]).